



Pesticide Updates!

Volume 3, Issue 4

January, 2002

Updates! - Your Source

Welcome to the Winter edition of Pesticide Updates! We hope that this past year was a very productive and prosperous year for all Idaho pesticide applicator and wish everyone a happy new years.



This last year, we had a great deal of emphasis placed on pesticide security. Pesticide security has been a significant issue for ISDA since the events of September 11. In fact, ISDA investigators and pesticide trainers will be making presentations throughout the state concerning pesticide security. Remember that pesticide security is the best defense against anyone that wants to use our own products against our citizens.

There will be some changes in pesticide recertification starting in 2002. One of the most notable changes will be the requirement to sign-in at all pesticide recertification classes. This requirement will be necessary to provide ISDA with a complete listing of all persons that attend classes and also to set up our proposed scanning system that will automatically enter applicator credits into our database. Read more about this system on page 6.

The Great American Farm Show pesticide seminars in Boise were a great success, providing pesticide recertification credits for a large number of area applicators. ISDA thanks Great American Productions and the show vendors that gave us the opportunity to provide this training.

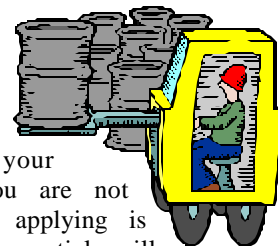
ISDA will be sponsoring the **Pesticide Applicator's Drift Conference** February 5-6, 2002 in Coeur d'Alene. Learn how to register for this important conference on page 5. For those persons that will need pesticide recertification credits, this conference offer 14 Idaho pesticide recertification credits. Credits have been requested for Oregon, Washington and Montana.

Questions - Comments - Concerns

Contact Sherm Takatori
(208) 332-8609 or e-mail at
stakator@agri.state.id.us



Take Care of Your Pesticide Products This Winter!



How you store your pesticides when you are not mixing, loading or applying is them a serious matter. The following article will assist you in knowing if your current pesticide storage is adequate.

Keep Pesticides out of Reach. Your storage area should be designed to properly store your chemicals. The pesticide storage area should be lockable so that the stored chemicals are not available to children, pets, livestock or unauthorized intrusion. This could also includes securing all secondary entries such as windows. It is allowable to keep a storage area open as long as the chemicals are locked inside of the storage area. An example would be to locate the storage area inside a locked room inside of a building. No matter where your pesticides are stored, they should secured from unauthorized entry.

Keep Your Pesticides Separate. You should segregate your pesticides from food, feed, veterinary supplies, clothing or any other item that may have human or animal contact when they are stored. In other words, it is not advisable to store your pesticides in the same area that you store any item that you, your family, your animals or pets may use or consume. Additionally, it is a good idea to separate your specific chemicals while they are in storage. Many chemicals are sold in similar containers and if the containers are not separated, it increases the chances of using the wrong chemical in your spraymix.

Properly Mark Your Pesticide Storage Area. All pesticide storage areas should be clearly marked as such regardless of the type of chemical stored. The placard should bear the skull and crossbones, and have on it the words "Danger - Pesticide Storage Area. Unauthorized Entry Prohibited". The placard should also have the name and telephone number of someone who can be contacted in case of emergency. Properly marking your storage area is critical for fire and rescue personnel. If a fire occurs in your pesticide storage area, the placard will notify any rescue personnel that they need to take special precautions. It additionally notifies anyone that potentially hazardous chemicals are stored inside and all

(Continued on page 2)

persons should take the proper precautions when entering.

Keep Your Pesticides Protected from extreme heat and cold, light, high humidity, and rain. Your pesticides need to be protected from the elements in order for them to work properly. Most chemical will state a temperature range for storage directly on the label. Extreme heat or cold can reduce the effectiveness of a pesticide or render it unusable. For instance, some formulations (Such as flowables) can separate if exposed to very cold temperatures. High humidity and rain can make some dry formulation clump. Excessive light may cause some chemicals to break down. It is unwise and expensive to purchase your chemicals for the season only to find that when you are ready to use them, they are ineffective or unusable.



Have Adequate Safety Equipment Available. Adequate safety equipment is probably the most overlooked item for pesticide storage. For instance, is the proper personal protective equipment (PPE) available for use when handling pesticides? If you are storing flammable formulations, do you have fire extinguishers available and are they the correct type of fire extinguisher? Is the proper equipment available for spill containment and cleanup if a pesticide spill occurs? Additionally, the storage area should be adequately lighted so that it may be used during times when daylight is not available or inadequate.

Protect Against Ground and Surface Water Contamination.

Make sure that your storage area is located away from any ground or surface water source. This means locating the storage area away from well heads, streams, canals, ditches and wetlands. If pesticides spill, they may run off into surface water sources or may be carried down into the ground water. Never store pesticides in a pump house. If possible, your storage area should have a floor that is sealed, such as sealed concrete. If your storage area has a dirt or gravel floor, you may be required to remove the contaminated material in case of a spill.



Store Pesticides in The Original Container With its Label.

All stored pesticide must be kept in its original container with its label attached. Sometimes, the pesticide label can be torn off or damaged during handling. If the pesticide does not have the original label, get another label from the dealer or manufacturer and affix it to the container. Many serious mishaps have occurred due to pesticides being stored in different containers. Never use food or beverage containers to store pesticides. These may be attractive to children who may think these containers are food or drink.

You are responsible for properly storing all pesticides that you purchase. If you have any questions regarding pesticide storage or storage areas, please contact ISDA at (208) 332-8610.

Training and Testing Opportunities for January, February and March



The following is a listing of certification and recertification training and certification testing opportunities in Idaho. The listed sessions are offered through the ISDA, U of I and other organizations or companies. This list may not reflect all training that will be conducted throughout the state, only the training opportunities that have been submitted and approved as of the printing of this publication. For a more complete list, go to the ISDA website <http://www.agri.state.id.us/agresource/seminars.htm> and all current training seminars will be listed. If you are not connected to the internet, you can call ISDA Licensing and Training at (208) 332-8600 or (208) 332-8595 to get information on local seminars.

Certification training sessions are bolded in the schedule. These sessions may be used for recertification if allowed by the contact person. Any applicator wishing to attend one of the training sessions for recertification credits must make prior arrangements with the class contact. Recertification training opportunities are listed in italics. Please telephone the contact person for information on these classes.

- **Jan 15-16—Elko, NV. Pesticide Applicator School and License Workshop, 12 credits.** Contact Scott Cichlowlaz, Nevada CES, (702) 486-4690.
- **Jan 15—Spokane WA. Ornamental Workshop, 3 credits.** Contact Laurel D. Hansen, Spokane Falls Community College, (509) 533-5666.
- **Jan 15-16—Pacific Northwest Farm Forum, 9 credits.** Contact Diahne M. Gill, (509) 459-4121.
- **Jan 16—Soda Springs, ID. Pesticide Applicator Testing.** Contact Steve Riedy, Sr. Ag Investigator, (208) 236-6091.
- **Jan 16-17—Spokane, WA. NW Direct Seed Cropping Conf., 4 credits.** Contact Roger Veseth, U of I, (208) 885-6386.
- **Jan 16—Spokane, WA. PCO Topics Workshop.** Contact Laurel D. Hansen, Spokane Falls Community College, (509) 533-3666.
- **Jan 16-18—Boise, ID. Idaho Horticulture Convention, 6 credit.** Contact Ann Bates, (208) 522-7307.
- **Jan 17—Logan, UT. UT/ID Cooperative Weed Management Conference, 3 credits.** Contact Stuart Parkinson, U of I CES, (208) 852-1097.
- **Jan 18—Twin Falls, ID. Agrilience Growers Meeting, 2 credits.** Contact Rusty Bowen, (208) 423-5574.
- **Jan 21—Burley, ID. WFS Growers Meeting, 2 credits.** Contact Steve Wilkie, (208) 436-0322.
- **Jan 22-26—Moscow, ID. Forestry Short Course, 8 cred-**

(Continued on page 3)

(Continued from page 2)

- its. Contact Randy Brooks, (208) 476-4434.
- Jan 22—Pocatello, ID. Potato Seed Growers Seminar, 2 credits. Contact Bobbie Knight, (208) 552-9198.
- Jan 22—Spokane, WA. Ornamental Workshop, 3 credits. Contact Laurel D. Hansen, Spokane Falls Community College, (509) 533-5666.
- Jan 22—Council, ID. Pesticide Applicator Weed Control Seminar, 3 credits. Contact Sherman Takatori, (208) 332-6809.
- Jan 23—Spokane, WA. PCO Topics Workshop. Contact Laurel D. Hansen, Spokane Falls Community College, (509) 533-3666.
- Jan 23—Moscow, ID. Pesticide Applicator Testing, Contact Chuck Hawley, ISDA Sr. Ag Investigator, (208) 666-6779.
- Jan 23—Worley, ID. Co-Ag Annual Growers Meeting, 6 credits. Contact Bill Michaelson, (208) 523-3511.
- Jan 23—Moscow, ID. Agronomy Training Days, 6 credits. Contact Stephen Reinertsen, (509) 397-4355.
- Jan 23—Nampa, ID. ID/OR Alfalfa Seed Growers Association Meeting, 1 credit. Contact Jerry Neufeld, (208) 459-6003.
- Jan 23-24—Pocatello, ID. Idaho Potato School, 8 credits. Contact Cindy Nolte, (208) 529-8376.
- Jan 23—Caldwell, ID. Pesticide Applicator Testing. Contact Dan Safford, Sr. Ag Investigator (208) 465-8482.
- Jan 24—Spokane, WA. Wilbur-Ellis Specialty Seminars, 5-6 credits (Turf, Vegetation Management, Forestry, Landscapes/ornamentals and Greenhouse). Contact Linda Underwood, (509) 928-4512.
- Jan 24—Moscow, ID. Agronomy Training Days, 8 credits. 6 credits. Contact Stephen Reinertsen, (509) 397-4355.
- Jan 24 & 31, Feb 1—Caldwell, ID. Agricultural Pesticide Applicator Training and Testing. Contact Jerry Neufeld, Canyon County CES (208) 459-6003.
- Jan 25—Colfax, ID. Wilbur-Ellis Growers Meeting, 6 credits. Contact Tim Fisher (509) 397-3421.
- Jan 28—Twin Falls, ID. Agronomic Training Seminar, 1 credit. Contact Dale Stukenholtz, (208) 734-3050.
- Jan 28—Fairfield, ID. Camas/Blaine County Cereal Production Workshop, 1 credit. Contact Cindy Kinder, (208) 764-2230.
- Jan 28—Burley, ID. WFS Growers Meeting, 2 credits.

Contact Steve Wilkie, (208) 436-0322.

- Jan 29—Spokane, WA. Ornamental Workshop, 3 credits. Contact Laurel D. Hansen, Spokane Falls Community College, (509) 533-5666.
- Jan 29—Burley, ID. WFS Growers Meeting, 1 credits. Contact Steve Wilkie, (208) 436-0322.
- Jan 30—Coeur d'Alene, ID. Pesticide Applicator Testing, Contact Chuck Hawley, ISDA Sr. Ag Investigator, (208) 666-6779.
- Jan 30—Rupert, ID. Pesticide Applicator Testing. Contact Dean Smith, Sr. Water Quality Analyst, (208) 736-5277.
- Jan 30—Pocatello, ID. Pesticide Applicator Testing. Contact Steve Riedy, Sr. Ag Investigator, (208) 236-6091.
- Jan 30—Boise, ID. Pesticide Applicator Testing. Contact Dan Safford, Sr. Ag Investigator, (208) 465-8482.
- Jan 30—Spokane, WA. PCO Topics Workshop. Contact Laurel D. Hansen, Spokane Falls Community College, (509) 533-3666.
- Feb 1—Moscow, ID. Wilbur-Ellis 2002 Growers Meeting, 4 credits. Contact Travis Frei, (208) 875-1141.
- Feb 5-6—Coeur d'Alene, ID. Pesticide Applicator's Drift Conference, 14 credits. Contact Sherman Takatori, (208) 332-8609.
- Feb 5—Fairfield, ID. Camas/Blaine County Forage Workshop, 1 credit. Contact Cindy Kinder, (208) 764-2230.
- Feb 6—Idaho Falls, ID. Pesticide Applicator Testing, Contact Mike Hepworth, ISDA Sr. Ag Investigator, (208) 525-7198.
- Feb 6—Twin Falls, ID. Pesticide Applicator Testing, Contact Rodney Gabehart, Sr. Ag. Investigator, (208) 739-4759
- Feb 6—Yakima, WA. Enemies of Growing Great Wine, 3 credits. Contact Debbie Carpenter, (509) 782-8234.
- Feb 6—Burley, ID. WFS Growers Meeting, 2 credits. Contact Steve Wilkie, (208) 436-0322.
- Feb 7—PNW Grain and Feed Warehouseman's Conference, 5 credits. Contact (503) 227-0234.
- Feb 7-8—Coeur d'Alene, ID. Turf, Tree, and Landscape Conference, 9 credits. Contact Kelly Newell, (800) 942-4978.
- Feb 8—Post Falls, ID. Wilbur-Ellis Growers Meeting, 4 credits. Contact Vi Tiegs, (509) 283-2432.
- Feb 12—Burley, ID. Plant Foods Inc. Recert Meeting, 3 credits. Contact Ralph Denton, (208) 733-4072.
- Feb 12-13—Ontario, OR. OSU Entomology Short Course, 10 credits. Contact Ben Simko, (541) 881-1417.
- Feb 12—Burley, ID. Western Farm Growers Meeting, 2 credits. Contact Steve Wilkie, (208) 436-0322.
- Feb 13—Bonners Ferry, ID. Pesticide Applicator Testing, Contact Chuck Hawley, ISDA Sr. Ag Investigator, (208) 666-6779.
- Feb 13—Preston, ID. Pesticide Applicator Testing. Contact Steve Riedy, Sr. Ag Investigator, (208) 236-6091.
- Feb 13—Grangeville, ID. Pesticide Applicator Testing.

(Continued on page 4)

Keep Accurate Pesticide Application Records!

Know the requirements
Record all necessary applications

Contact ISDA for Information!



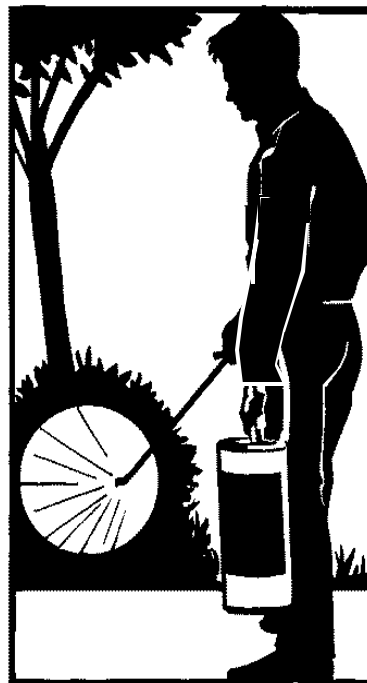
(Continued from page 3)

- Contact Dan Safford, Sr. Ag Investigator (208) 465-8482.
- Feb 13-14—Spokane, WA. WSU Recertification Training, 12 credits. Contact Carol Ramsay, (509) 335-9222.
- Feb 13—Moscow, ID. Moscow Idaho Seed Company 2002 Growers Meeting, 4 credits. Contact Duane Erickson, (208) 882-2324.
- Feb 14—Burley, ID. Western Farm Service Growers Meeting, 1 credit. Contact Steve Wilkie, (208) 436-0322.
- Feb 18—Burley, ID. Western Farm Service Growers Meeting, 1 credit. Contact Steve Wilkie, (208) 436-0322.
- Feb 18—Ontario, OR. Simplot Growers Recertification Meeting, 3 credits. Contact Vince Gaona, (541) 889-2353.
- Feb 19—Twin Falls, ID. Agronomic Training Meeting, 1 credit. Contact Dale Stukenholtz, (208) 734-3050.
- Feb 20—Sandpoint, ID. Pesticide Applicator Testing, Contact Chuck Hawley, ISDA Sr. Ag Investigator, (208) 666-6779.
- Feb 20—Blackfoot, ID. Pesticide Applicator Testing, Contact Mike Hepworth, ISDA Sr. Ag Investigator, (208) 525-7198.
- Feb 20—Rupert, ID. Pesticide Applicator Testing, Contact Rodney Gabehart, Sr. Ag. Investigator, (208) 739-4759.
- Feb 20—Boise, ID. Pesticide Applicator Testing. Contact Dan Safford, Sr. Ag Investigator (208) 465-8482.
- Feb 22—Kendrick, ID. 2002 Growers Meeting, 4 credits. Contact Delbert Harris, (208) 882-2324.
- Feb 26, Mar 7 & 8—Lewiston, ID. Agricultural Pesticide Applicator Training and Testing. Contact Larry Smith, Nez Perce County CES (208) 799-3096.
- Feb 27—Pocatello, ID. Pesticide Applicator Testing. Contact Steve Riedy, Sr. Ag Investigator, (208) 236-6091.
- Feb 27—Boise, ID. Pesticide Applicator Testing. Contact Dan Safford, Sr. Ag Investigator (208) 465-8482.
- Mar 6—Rupert, ID. Pesticide Applicator Testing, Contact Rodney Gabehart, Sr. Ag. Investigator, (208) 739-4759.
- Mar 6—Caldwell, ID. Pesticide Applicator Testing. Contact Dan Safford, Sr. Ag Investigator (208) 465-8482.
- Mar 12—Orofino, ID. Pesticide Applicator Testing, Contact Chuck Hawley, ISDA Sr. Ag Investigator, (208) 666-6779.
- Mar 13—Lewiston, ID. Pesticide Applicator Testing, Contact Chuck Hawley, ISDA Sr. Ag Investigator, (208) 666-6779.
- Mar 13—Blackfoot, ID. Pesticide Applicator Testing, Contact Mike Hepworth, ISDA Sr. Ag Investigator, (208) 525-7198.
- Mar 13—Twin Falls, ID. Pesticide Applicator Testing, Contact Rodney Gabehart, Sr. Ag. Investigator, (208) 739-4759.
- Mar 13—Malad, ID. Pesticide Applicator Testing. Contact Steve Riedy, Sr. Ag Investigator, (208) 236-6091.
- Mar 13—Boise, ID. Pesticide Applicator Testing. Contact Dan Safford, Sr. Ag Investigator (208) 465-8482.

- Mar 20—Payette, ID. Pesticide Applicator Testing. Contact Dan Safford, Sr. Ag Investigator (208) 465-8482.
- Mar 26—St. Maries, ID. Pesticide Applicator Testing, Contact Chuck Hawley, ISDA Sr. Ag Investigator, (208) 666-6779.
- Mar 27—Coeur d'Alene, ID. Pesticide Applicator Testing, Contact Chuck Hawley, ISDA Sr. Ag Investigator, (208) 666-6779.
- Mar 27—Blackfoot, ID. Pesticide Applicator Testing, Contact Mike Hepworth, ISDA Sr. Ag Investigator, (208) 525-7198.
- Mar 27—Malad, ID. Pesticide Applicator Testing. Contact Steve Riedy, Sr. Ag Investigator, (208) 236-6091.
- Mar 27—Boise, ID. Pesticide Applicator Testing. Contact Dan Safford, Sr. Ag Investigator (208) 465-8482.

If you would like specific training for your organization, group or association, please contact your County U of I Extension Educator or the ISDA Pesticide Training Section. Both have excellent training materials and presentations available for recertification credits or applicator's training. ISDA's Licensing and Training Section provides certification and recertification training programs for organizations upon request.

For questions concerning any of the training or testing opportunities, please contact the ISDA Pesticide Applicator Licensing and Training Section at (208) 332-8600.



**Apply
Pesticides
Wisely!!!**

Read the Label

**Wear
Protective
Equipment**

**Record Your
Application**

***Make sure you are applying
pesticides correctly all the time!***

Drift Conference Scheduled for Coeur d'Alene

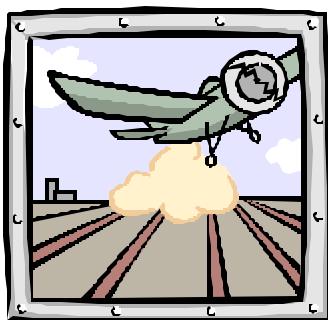
The Pesticide Applicator Drift Conference will be held February 5-6 at the Coeur d'Alene Resort. This year, the conference will be co-sponsored by the University of Idaho, Washington State University and the Idaho State Department of Agriculture.

This conference will focus specifically on pesticide application drift and will include information for all pesti-

cide applicators. Currently, the conference agenda contains specific sessions for Agricultural Applicators, Urban Applicators and Right-of-Way or Bareground Treatment Applicators.

The conference planning committee have contacted a number of regional and national experts in the area of pesticide drift, toxicology, pesticide application, application equipment, and regulation. A few of the key seminars will involve:

- Pesticide Drift: Session that will give the attendee information on pesticide drift, its causes and how to minimize damage.
- Pesticide Exposure and Toxicology: A unique talk concerning pesticide exposure directed towards all pesticide applicators.
- A **Media Discussion** Session that will give the conference attendees an opportunity to hear from various news media representatives on their perceptions on the pesticide application industry.
- Pesticides and the Law: An interesting session on what various laws apply to pesticide application in general and pesticide drift in specific.



- State Department of Agriculture, University Extension and pesticide applicator discussion session for important issues for Idaho, Montana, Oregon, and Washington.

The conference fee is \$40.00 for both days of the conference and the conference fee includes lunch. The Coeur d'Alene Resort will have a number of rooms available for conference attendees.

The resort has given extended a special rate for lodging at the conference starting at \$56.00! This is a change from the original flyers and is an exceptional price for staying at a first-class resort hotel! Contact the Coeur d'Alene Resort at (800) 688-5253 to reserve your room. You must reserve your room early to get the conference rate. The Coeur d'Alene Resort will hold this room rate until rooms are no longer available. The fee for conference attendance will be \$50.00 at the door.



This will be a very informative conference for anyone that does any pesticide application or for industry and government representatives to learn more on how to control pesticide drift.

Mark your calendars early for this conference! There will be a limited number of seats available for this one and we will assign reservations on a first-come, first-served basis.

ISDA has authorized 14 recertification credits for this conference. Credits have been requested for Washington, Oregon and Montana.

For more information, contact ISDA Licensing and Training Section at (208) 332-8600 or use the tear-out registration form on the bottom of this page to register for the conference.

Conference Registration - Drift Conference

Name (Please Print) _____ Telephone #: _____

Organization/Company _____

Address _____

City _____ State _____ Zipcode _____

Type of Applicator: (Circle One) Professional Agriculture Professional Ornamental ROW Private

Conference Fee: \$40.00 per person. Please pay by check or money order (no cash or credit card)

Make Checks to: ISDA Drift Conference

Mail registration and fees to: ISDA, Attention: Pesticide Drift Conference, PO Box 790, Boise, Idaho 83701.



Sign-in Sheets for Pesticide Seminars Will Become Mandatory

Beginning this year, applicators attending pesticide seminars must sign the sign-in sheets to receive credit for attending the classes. This change in the current procedures to account for pesticide credits is to accommodate future changes in the pesticide recertification seminar accounting.

Eventually, the stickers used to verify attendance at applicator seminars will no longer be used or given to applicator to account for recertification credits.

The licensing section will switch to a new system to account for pesticide applicator training and recertification credits prior to the end of July 2002. With this system, applicator information will be scanned from the sign-in sheets and stored in a database. This database records all seminars the applicator has attended during his/her licensing period. The applicators will be able to find out how many credits and which seminars they attended by entering their name and license number on a specific web page.

The largest advantage of switching to this system for recertification credits is to eliminate the sticker requirement for both the applicator and the seminar provider. Applicators will need to keep track of their seminar attendance by either keeping a separate listing of pesticide classes or by using the internet to query their seminar attendance records.

This program will eliminate the problems caused by lost stickers or lost licenses. The physical license will still be necessary to identify pesticide applicators while on the job or to identify them at seminars, however the process for recovering credits after a lost sticker or lost license will be greatly simplified.

Pesticide applicators need to know their pesticide license number to use this system. Your license is necessary to correctly enter the credits into the database system, so it is a very good practice to keep your license on you at all times you are applying a pesticide or attending a seminar.

Questions Concerning Idaho Pesticide Law?

Contact ISDA!

Bob Spencer (Compliance)
(208) 332-8613

Sherm Takatori (Licensing)
(208) 332-8609



Southwestern Idaho Ground Water Monitoring for Dacthal

Idaho State Department
of Agriculture
Ground Water Quality
Program Results



During the summer of 2001, the Idaho State Department of Agriculture (ISDA) ground water personnel conducted ground water monitoring for pesticide detections of concern in southern Idaho. This work is in response to previous elevated ground water detections of atrazine, dacthal, and simazine. ISDA is following the response protocol as outlined in the draft *Idaho State Pesticide Management Plan (PMP) for Ground Water Protection (2001)*.

The purpose of the monitoring was to determine the extent of contamination surrounding each well where the original detections were found. Areas of focus were northwest Ada County, northwest Owyhee County, west of Weiser, Twin Falls County near Buhl, and Minidoka County. Each area was studied to determine the area of impact relative to atrazine, simazine, or dacthal (DCPA). The majority of detections of concern were related to dacthal in Ada, Owyhee, and Washington Counties.

Northwest Owyhee County

Numerous dacthal detections were located within northwest Owyhee County near Homedale and Marsing in 2001 (Figure 1). The detections ranged from 0.08 µg/L to 67 µg/L (Table 1). The mean concentration for the 20 sites with detections was 8.2 µg/L. Three detections located in the Homedale vicinity were above 20% (20 µg/L) of the health reference point of 100 µg/L. The wells located to the west (27 µg/L) and southwest (67 µg/L) of Homedale have consistently been above 20% for the last three years (Figure 1). The area has loam to sandy loam soils and shallow depth to ground water, both of which are believed to be contributing factors to the detections.

Northwest Ada County

ISDA has detected dacthal in Ada County about five miles northwest of Eagle since 1995. This also is an area of sandy

(Continued on page 7)

Table 1. Dacthal statistics from May 2001 sampling of ground water in northwest Owyhee County.

| | |
|---|----------------------|
| Number of Detections | 20 |
| Range of Detections | 0.028 µg/L – 67 µg/L |
| # of detections > 20 % of Reference Point | 3 |
| Mean Concentration | 9.6 µg/L |
| Median Concentration | 0.2 µg/L |
| Health Reference Point (Reference Dose) | 100 µg/L |

(Continued from page 6)

soils and shallow ground water that again are believed to be contributing factors to detections in the area. Follow-up monitoring in 2001 by ISDA indicated dacthal was still present in ground water of the area (Table 2) (Figure 2). The detections ranged from 0.56 to 30 $\mu\text{g/L}$ (Table 2). The mean concentration for the 12 sites with detections was 12.8 $\mu\text{g/L}$ (Table 2). There were four detections greater than 20 $\mu\text{g/L}$, including some of the wells that were the initial wells of focus in 1995 (Table 2). Most wells with dacthal detections in 1995 were found to have reduced concentrations in 2001.

Southwestern Washington County

ISDA has studied dacthal concentrations in southwestern Washington County west of Weiser for a number of years. Again, this is an area of loam soils with shallow ground water. In May 1999, ISDA detected dacthal at a well west of Weiser at a concentration of 20 $\mu\text{g/L}$ (See well with 27 $\mu\text{g/L}$ in 2001- Figure 3). Sampling of the same well in 2000 yielded a concentration of 41 $\mu\text{g/L}$. In 2001, ISDA again tested the well and an additional three wells in the area. Three of the four wells returned positive detections for dacthal (Figure 3). The three wells with positive detections are located in close proximity to each other and are tapping shallow ground water.

Conclusions and Recommendations

Through monitoring and evaluation of existing data it is apparent that dacthal has the potential for leaching into ground water from legal application and use. The areas of concern in Owyhee, Washington, and Ada Counties all have shallow ground water and soils that range from loam to sandy loam. Numerous detections occur above 20 % of the reference point of 100 $\mu\text{g/L}$. This is the level at which ISDA's PMP process calls for additional monitoring, evaluation, BMPs, and possibly regulations.

ISDA would like landowners, homeowners, pesticide applicators, dealers, and consultants to work toward or continue sound planning, handling, mixing, loading, application, and disposal techniques to minimize potential for impact to ground water. Planning and following the pesticide label are key to minimizing impacts to ground water. Also, proper irrigation management and scheduling is a key to successful protection of ground water especially when leachable compounds are chosen for crop protection needs. In the future, planning and decision making processes also may warrant using alternative chemicals in place of dacthal.

For questions concerning the information contained in this article, please contact Gary Bahr (332-8597) or Rick Carlson (332-8599).

Table 2. Dacthal statistics from August 2001 sampling of ground water in northwest Ada County.

| | |
|---|---|
| Number of Detections | 12 |
| Range of Detections | 0.56 $\mu\text{g/L}$ – 30 $\mu\text{g/L}$ |
| # of detections > 20 % of Reference Point | 4 |
| Mean Concentration | 12.8 $\mu\text{g/L}$ |
| Median Concentration | 12 $\mu\text{g/L}$ |
| Health Reference Point (Reference Dose) | 100 $\mu\text{g/L}$ |

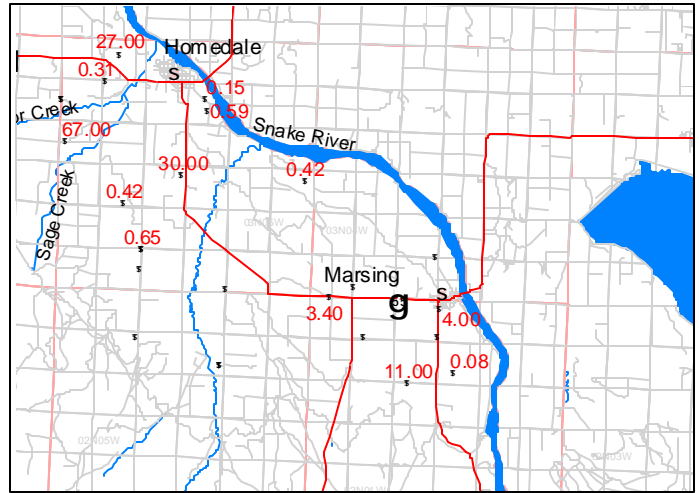


Figure 1. Selected ground water wells with dacthal detections in northwest Owyhee in 2001.

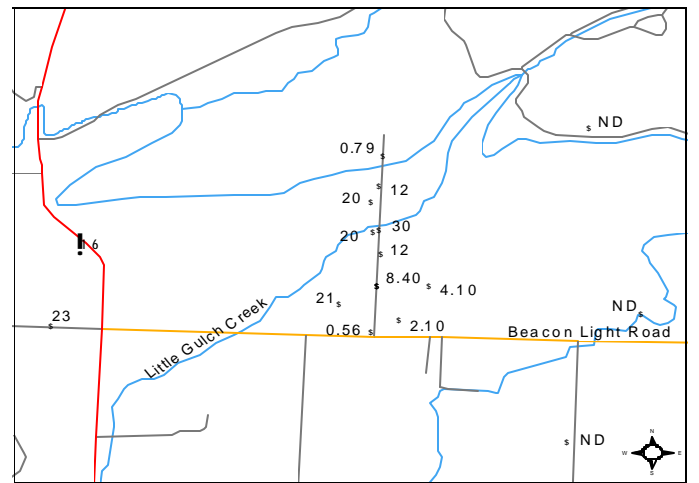


Figure 2. Ground water wells with dacthal detections northwest of Eagle, Idaho in 2001.

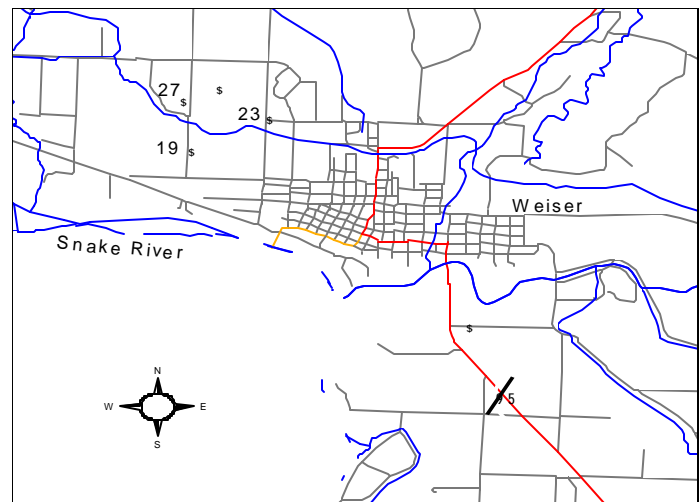


Figure 3. Ground water wells with dacthal detections west of Weiser, Idaho in 2001.

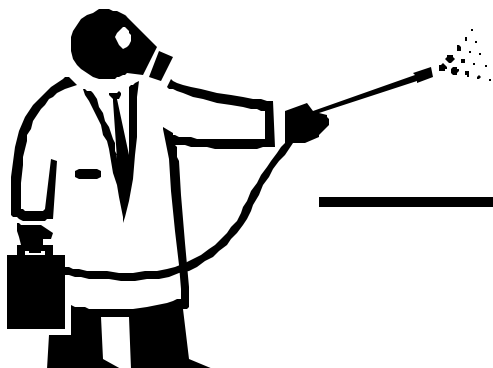
Idaho State Department of Agriculture

Patrick A. Takasugi, Director

2270 Old Penitentiary Road
PO Box 790
Boise, Idaho 83701

**PRESORTED STANDARD
U.S. POSTAGE PAID
PERMIT NO. 1
BOISE, ID**

Pesticide Applicator's Drift Conference



Informative Seminars and Sessions for Pesticide Applicators Concerning Pesticide Drift Issues

The Pesticide Applicator's Drift Conference is designed to provide northwest pesticide applicators with the most current information concerning pesticide drift and applicator issues.

The Conference will be held February 5 & 6, 2002 at the Coeur d'Alene Resort in Coeur d'Alene, Idaho. A full schedule of presentations and seminars will be presented both days. The presentations and seminars are provided for all pesticide applicators with specific sessions for agricultural applicators, ornamental (urban) applicators, and right-of-way or bareground treatment applicators.

Don't miss the opportunity to attend this premier conference! Reduced rates for lodging have been extended until all rooms are filled! Conference registration and lodging information is located on page 5 of this issue of *Updates!*